

AMENDMENT TO THE SPECIFICATION

Replacement paragraph for the paragraph beginning at page 19, line 9 and ending at page 20, line 14:

Figure 4 is a block diagram of a process device 200 which includes a specific implementation of the supervisory overlayer 104 shown in Figures 2 and 3. In the embodiment of Figure 4, the supervisory overlayer is implemented through multiple components in device 200. Process device 200 is configured as a transmitter and includes a sensor module 202 which is configured to couple to the industrial process and measure a process variable. In accordance with known techniques, device 200 provides an output on loop 18 which is related to one or more process variables sensed by a sensor in sensor module 202 which couples to a feature module 203. Device 200 includes a microprocessor and memory 204 which couples to sensor module 202 through a data bus provided by data bus processor 206 and physical layer 208. Communication over process control loop 18 to and from the microprocessor 204 is provided using loop control circuitry 220 and communication circuitry 222. In accordance with techniques known in the art, communication is effected using analog and/or digital protocols. A loop feedback circuit 224 is used to monitor current through the loop 18 and provides feedback to communication circuitry 222. Loop override circuitry 226 is configured to override loop control circuitry 220 and set the loop current to a predefined level. In the embodiment shown in Figure 4, power from the loop 18 is also used to completely power the process device 200. A linear preregulator 240 provides a preregulated voltage to voltage regulator circuitry 242. Voltage regulator circuitry 242 provides supply voltages +VSS and +VSS' to circuitry within process device 200. A separate power control module ~~256~~255 provides power to the sensor module 202.

Replacement paragraph for the paragraph beginning at page 22, line 3 and ending at page 22, line 15:

In another embodiment of the supervisory overlayer, the power control circuitry ~~256~~255 monitors and controls power provided to the sensor module 202. For example, if the current drawn by the sensor module 202 exceeds a threshold, the power control circuit ~~256~~255

can limit the current to the sensor module, or completely disconnect the sensor module if desired. Additionally, an alarm output can be provided. This allows the process device 200 to continue with limited functionality even though the sensor module 202 is failing without allowing the failure of sensor module 202 to cause complete failure of the entire device.